SEQUENCE LISTING





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JAN 05 2001

TECH CENTER 1600/2900

<110> Forschungszentrum Juelich GmbH; Marina Vrlijc et al.

<120> Process for the microbial production of amino acids by boosted activity of export carriers

<130> 1

<140> PCT/DE96/02485

<141> 1996-12-18

<160> 2

<170> PatentIn Ver. 2.0

<210> 1

<211> 2374

<212> DNA

<213> Corynebacterium glutamicum

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<222> (1016)..(1726)

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<213> Corynebacterium glutamicum

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Tyr	Leu	Leu	Trp	Phe 85	Ala	Val	Met	Ala	Ala 90	Lys	Asp	Ala	Met	Thr 95	Asn
Lys	Val	Glu	Ala 100	Pro	Gln _.	Ile	Ile	Glu 105	Glu	Thr	Glu	Pro	Thr	Val	Pro
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Arg	Val	Arg	Val	Glu	Val	Ser	Val	Asp	Lys	Gln	Arg	Val	Trp	Val	Lys
Pro 145	Met	Leu	Met	Ala	Ile 150	Val	Leu	Thr	Trp	Leu 155	Asn	Pro	Asn	Ala	Tyr 160
Leu	Asp	Ala	Phe	Val	Phe	Ile	Gly	Gly	Val	Gly	Ala	Gln	Tyr	Gly 175	Asp
Thr	Gly	Arg	Trp 180	Ile	Phe	Ala	Ala	Gly 185	Ala	Phe	Ala	Ala	Ser 190	Leu	Ile
Trp	Phe	Pro	Leu	Val	Gly	Phe	Gly	Ala	Ala	Ala	Leu	Ser	Arg	Pro	Leu

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Ser Ser Pro Lys Val Trp Arg Trp Ile Asn Val Val Val Ala Val Val
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C'T



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<110> Forschungszentrum Juelich GmbH; Marina Vrlijc et al.
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<120> Process for the microbial production of amino acids by boosted activity of export carriers

<130> 1

<140> PCT/DE96/02485

<141> 1996-12-18

<160> 3

<170> PatentIn Ver. 2.0

<210> 1

<211> 2374

<212> DNA

<213> Corynebacterium glutamicum

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                                     90
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Tyr Leu Asp Gly Ile Pro Glu Gly Ser Arg Ala Ser Gln Gly Lys Ser
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145 150 155 160

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165 170 175

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<213> Corynebacterium glutamicum

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Gln Ala Ala Arg Lys Met Val Leu Leu Gln Ala Glu Thr Lys Ala Gln
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Ala Asn Pro Val Ala Gly Cys Glu Val Val Glu Leu Gly Thr Met Arg

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His Leu Ala Ile Ala Thr Pro Ser Leu Arg Asp Ala Tyr Met Val Asp

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Gly Lys Leu Asp Trp Ala Ala Met Pro Val Leu Arg Phe Gly Pro Lys

180 185 190.

Asp Val Leu Gln Asp Arg Asp Leu Asp Gly Arg Val Asp Gly Pro Val
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Gly Arg Arg Val Ser Ile Val Pro Ser Ala Glu Gly Phe Gly Glu
210 215 220

Ala Ile Arg Arg Gly Leu Gly Trp Gly Leu Leu Pro Glu Thr Gln Ala
225 230 235 240

Ala Pro Met Leu Lys Ala Gly Glu Val Ile Leu Leu Asp Glu Ile Pro
245 250 255

Ile Asp Thr Pro Met Tyr Trp Gln Arg Trp Arg Leu Glu Ser Arg Ser

260 265 270

Leu Ala Arg Leu Thr Asp Ala Val Val Asp Ala Ala Ile Glu Gly Leu
275 280 285

Arg Pro